IN	umbor: 09/934,900 Changed a lile from non-ASCII to ASCII	CRE Procossing Quio: 10/15/2
	Changod a file from non-ASCII to ASCII	Vorlhod by: (ST
	Changed the margins in cases where the sequence the was marginal	apped down to the next line.
	Edited a lormat error in the Current Application Data section, spe-	cificative D
	Edited the Current Application Data section with the actual curren applicant was the prior application data; or other	t number. The number inputted by II
	Added the mandatory heading and subheadings for "Current Appl	ication Data*
ł	Edited the Number of Sequences field. The applicant spelled ou	It a number instoad of using an intog
	Changed the spelling of a mandatory field (the headings or subhe:	adings), specifically:
(Corrected the SEO ID NO when obviously incorrect. The sequence	e numbers that were edited were:
- Id	nserted or corrected a nucleic number at the end of a nucleic line.	SEO ID NO's edited:
C	Corrocted subheading placement. All responses must be on the sapplicant placed a response below the subheading, this was moved	ome line as each subheading. If tho d to its appropriato placo.
t	nserted colons alter headings/subheadings. Headings edited incli	uded:•.
c	Deleted extra, invalid, headings used by an applicant, specifically:	
(Deletod:Aon-ASCII *garbago* 'at the beginning/end.of tiles; page numbers throughout text; other invalid text, such as_	secretary initials/lilename at end o
li	nserted mandatory headings, specifically:	
C	Corrected an obvious error in the response, specifically:	
E	dited identifiers where upper case is used but lower case is requir	ed, or vice versa.
	orrected an orror in the Number of Sequences field, specifically:	
^	*Hard Page Break*;code was inserted by the applicant. All occurr	rences had to bo deloted.
	loted ending stop codon in amino acid sequences and adjusted to to a Patentin bug). Sequences corrected:	
	ther:	
0	·	

Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

DATE: 10/15/2001

TIME: 21:05:11

```
Input Set : A:\PTO.AMC.txt
                    Output Set: N:\CRF3\10152001\1934900.raw
      3 <110> APPLICANT: Booth, Russ
             Cahoon, Rebecca E
      5
             Hitz, William D
      6
             Kinney, Anthony
             Yadav, Naren
      9 <120> TITLE OF INVENTION: Nucleotide Sequences of a New Class of Diverged Delta-9
Stearoyl-
     10
             ACP Desaturase
     12 <130> FILE REFERENCE: BB1476 US NA
C--> 14 <140> CURRENT APPLICATION NUMBER: US/09/934,900
C--> 15 <141> CURRENT FILING DATE: 2001-08-22
     17 <150> PRIOR APPLICATION NUMBER: 60/226996
    18 <151> PRIOR FILING DATE: 2000-08-22
    20 <160> NUMBER OF SEQ ID NOS: 26
    22 <170> SOFTWARE: Microsoft Office 97
    24 <210> SEO ID NO: 1
    25 <211> LENGTH: 1560
    26 <212> TYPE: DNA
    27 <213> ORGANISM: Glycine max
    29 <400> SEQUENCE: 1
    30 gaggcgttgg atctggcact cgttttgctg tggctgctct ctgaaactga aagcgaagca
                                                                          60
    31 gcagccactg aaaagcagaa aacaaaggga aagaacaagc ttagccatgc tgagtattat
                                                                         120
    32 attcaaggaa ttcgtcaagt acaatagaca cgtaatcaaa accatgcaga tacgaacctg
                                                                         180
    33 ccactccatc accacccaaa cccttccaca acttccgtgt tcttctagaa aagcccacca
    34 cogcoacett cttccgccgt taaacgctgc ggtttccgcg gcgccgttca aagcccggaa
    35 ggcccactca atgcctccag aaaagaaaga aattttcaag tccttggagg gatgggcctc
                                                                         360
    36 ggagtgggtc ctaccgctgc tgaagcccgt ggagcaatgc tggcagccac aaaacttcct
    37 ccctgacccc tcccttccgc atgaagagtt cagccatcag gtgaaggagc ttcgcgaacg
    38 cactaaagag ttacctgatg agtactttgt ggtgctggtg ggtgatatgg tcaccgagga
    39 cgcgcttccc acttaccaga ccatgatcaa caaccttgat ggagtgaaag atgacagcgg
    40 cacgageceg agecegtggg cegtgtggae eegggeetgg aeegeegagg aaaacagaca
    '41 cggggatctg ctcagaactt atttgtatct ctctgggagg gttgacatgg ctaaggtcga
    42 aaagaccgta cattacctca tttcagctgg catggaccct gggacagaca acaacccata
    43 tttggggttt gtgtacacgt cattccaaga gcgagcaaca tttgtggcgc acqggaacac
                                                                         840
    44 ggctcggctc gcgaaggagg gcggggatcc agtgctggcg cgcctatgcg qqaccatcqc
                                                                         900
    45 agcggacgag aagcggcacg agaacgcgta ctcaagaatc gtggagaagc ttctggaagt
    46 ggaccccacc ggggcaatgg tggccatagg gaacatgatg gagaagaaga tcacgatgcc 1020
    47 ggcgcacctt atgtacgatg gggatgaccc caggctattc gagcactact ccgctgtggc 1080
    48 gcagcgcata ggcgtgtaca ccgccaacga ctacgcagac atcttggagt ttctcgttga 1140
    49 acggtggaga ttggagaagc ttgaaggatt gatggctgag gggaagcggg cgcaggattt 1200
    50 cgtgtgtggg ttggcgccga ggattaggag gttgcaagaa cgcgctgatg agcgagcgcg 1260
    51 taagatgaag aagcatcatg gcgttaagtt cagttggatt ttcaataaag aattgctttt 1320
    52 gtgaaatttc agttaagact taagagataa gagatagagg tcaacgtgag tcaacaggtt 1380
    53 tttggctttg tgactatttt gagtttttgt ttgtaggtgg catttttagt acgaataatg 1440
    54 aacaatttaa catggattgc gtgtaatgga cattgttgga tccatggttg ttgttctggt 1500
    58 <210> SEQ ID NO: 2
    59 <211> LENGTH: 405
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/934,900

RAW SEQUENCE LISTING

DATE: 10/15/2001

PATENT APPLICATION: US/09/934,900

TIME: 21:05:11

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\10152001\1934900.raw

				PRT												
6.	L <21	.3> C	RGAN	IISM:	Gly	cine	max									
63	3 < 40	0> S	EQUE	NCE:	2											
64	Met	Leu	Ser	Tle	Tle	Dho	Tvc	Clu	Dha	17 n 1	T		_	_		
65	5 1			lle	5	1110	пуз	GIU	Pile	val	ьys	Tyr	Asn	Arg	His	Val
			m1	. 36-1			_			10					15	
07	TTE	г гуѕ	Thr	Met	GIn	Пе	Arg	Thr	Cys	His	Ser	Ile	Thr	Thr	Gln	Thr
υt	'			∠∪					25					3.0		
70	Leu	Pro	Gln	Leu	Pro	Cys	Ser	Ser	Arq	Lvs	Ala	His	His	Δra	Hic	Ť OU
71			35			-		40	9	-1-		*****	45	ALG	птэ	ьeu
73	Leu	Pro	Pro	Leu	Δen	λla	λla	1721	Com	77.	77-	-	43	_		
74		50		Lou	11011	mu	LIG	Val	ser	Ата	Ата		Pne	Lys	Ala	Arg
				a		_	55					60				
70	nys	Ата	HIS	Ser	мет	Pro	Pro	Glu	Lys	Lys	${\tt Glu}$	Ile	Phe	Lys	Ser	Leu
, ,	0.5					70					75					0.0
79	Glu	Gly	${\tt Trp}$	Ala	Ser	Glu	Trp	Val	Leu	Pro	Leu	Len	Lvs	Pro	Va 1	Clu
80					85		~			90		2300	275	110		Giu
82	Gln	Cvs	Trp	Gln	Pro	Gln	λen	Dho	t ou	70	3	_	_	_	95	
83		-12		100	110	GIII	ASII	Pile	reu	PLO	Asp	Pro	Ser	Leu	Pro	His
	C1	C1	Db.						105					110		
0.5	GIU	GIU	Pne	Ser	Hls	GIn	Val	Lys	Glu	Leu	Arg	Glu	Arg	Thr	Lys	Glu
00			TT2					120					125			
88	Leu	Pro	Asp	Glu	Tyr	Phe	Val	Val	Leu	Va1	Glv	Asn	Mot	Va 1	Thr	C1
89		130			-		135				011	140	Mec	val	1111	GIU
91	Asp	Ala	Leu	Pro	Thr	Ттег	Cln	mb	Wa+	~1 -		140	_			
92	145		LCu	Pro	TIT	1 T T	GIII	TIIL	Met	тте			Leu	Asp	Gly	Val
			_	_		150					155					160
94	ьys	Asp	Asp	Ser	Gly	Thr	Ser	Pro	Ser	Pro	Trp	Ala	Val	Trp	Thr	Ara
,,					165					170	_					5
										T/U					175	
97	Ala	Trp	Thr	Ala	Glu	Glu	Asn	Ara	His	Glv	Asn	Τ.Δ11	Lou	λνα	175	M
97 98	Ala	Trp	Thr	Ala	Glu	Glu	Asn	Arg	His	Gly	Asp	Leu		Arg	175 Thr	Tyr
90				Ala 180	Glu				His 185	Gly				Arg	Thr	
100	Leu		Leu	Ala 180 Ser	Glu			Asp	His 185 Met	Gly				Arg	Thr	
100 101	Leu	Туг	Leu 195	Ala 180 Ser	Glu Gly	Arg	Val	Asp 200	His 185 Met	Gly ala	Lys	Val	Glu 205	Arg 190 Lys	Thr Thr	Val
100 101 103	Leu His	Туг	Leu 195 Leu	Ala 180 Ser	Glu Gly	Arg	Val	Asp 200	His 185 Met	Gly ala	Lys	Val	Glu 205	Arg 190 Lys	Thr Thr	Val
100 101 103 104	Leu His	Tyr Tyr 210	Leu 195 Leu	Ala 180 Ser	Glu Gly Ser	Arg Ala	Val Gly 215	Asp 200 Met	His 185 Met Asp	Gly ala Pro	Lys Gly	Val Thr	Glu 205 Asp	Arg 190 Lys Asn	Thr Thr Asn	Val Pro
100 101 103 104	Leu His	Tyr Tyr 210	Leu 195 Leu	Ala 180 Ser	Glu Gly Ser	Arg Ala	Val Gly 215	Asp 200 Met	His 185 Met Asp	Gly ala Pro	Lys Gly	Val Thr	Glu 205 Asp	Arg 190 Lys Asn	Thr Thr Asn	Val Pro
100 101 103 104 106	Leu His	Tyr Tyr 210 Leu	Leu 195 Leu	Ala 180 Ser	Glu Gly Ser	Arg Ala Tyr	Val Gly 215	Asp 200 Met	His 185 Met Asp	Gly ala Pro	Lys Gly Glu	Val Thr	Glu 205 Asp	Arg 190 Lys Asn	Thr Thr Asn	Val Pro Val
100 101 103 104 106	His Tyr 225	Tyr 210 Leu	Leu 195 Leu Gly	Ala 180 Ser Ile	Glu Gly Ser Val	Arg Ala Tyr 230	Val Gly 215 Thr	Asp 200 Met Ser	His 185 Met Asp Phe	Gly ala Pro Gln	Gly Glu	Val Thr 220 Arg	Glu 205 Asp Ala	Arg 190 Lys Asn Thr	Thr Thr Asn Phe	Val Pro Val
100 101 103 104 106 107	His Tyr 225	Tyr 210 Leu	Leu 195 Leu Gly	Ala 180 Ser	Glu Gly Ser Val	Arg Ala Tyr 230	Val Gly 215 Thr	Asp 200 Met Ser	His 185 Met Asp Phe	Gly ala Pro Gln Lys	Gly Glu	Val Thr 220 Arg	Glu 205 Asp Ala	Arg 190 Lys Asn Thr	Thr Thr Asn Phe	Val Pro Val
100 103 103 104 106 107 109	His Tyr 225	Tyr 210 Leu His	Leu 195 Leu Gly	Ala 180 Ser Ile Phe Asn	Glu Gly Ser Val Thr 245	Arg Ala Tyr 230 Ala	Val Gly 215 Thr	Asp 200 Met Ser Leu	His 185 Met Asp Phe	Gly ala Pro Gln Lys	Gly Glu 235 Glu	Val Thr 220 Arg	Glu 205 Asp Ala Gly	Arg 190 Lys Asn Thr	Thr Thr Asn Phe	Val Pro Val 240 Val
100 101 103 104 106 107 109 110	His Tyr 225 Ala	Tyr 210 Leu His	Leu 195 Leu Gly	Ala 180 Ser Ile Phe Asn Leu	Glu Gly Ser Val Thr 245	Arg Ala Tyr 230 Ala	Val Gly 215 Thr	Asp 200 Met Ser Leu	His 185 Met Asp Phe	Gly ala Pro Gln Lys	Gly Glu 235 Glu	Val Thr 220 Arg	Glu 205 Asp Ala Gly	Arg 190 Lys Asn Thr	Thr Thr Asn Phe	Val Pro Val 240 Val
100 103 104 106 107 109 110 112	His Tyr 225 Ala	Tyr 210 Leu His	Leu 195 Leu Gly Gly Arg	Ala 180 Ser Ile Phe Asn Leu 260	Glu Gly Ser Val Thr 245 Cys	Arg Ala Tyr 230 Ala Gly	Val Gly 215 Thr Arg	Asp 200 Met Ser Leu Ile	His 185 Met Asp Phe Ala Ala 265	Gly ala Pro Gln Lys 250 Ala	Gly Glu 235 Glu Asp	Val Thr 220 Arg Gly	Glu 205 Asp Ala Gly Lys	Arg 190 Lys Asn Thr Asp	Thr Thr Asn Phe Pro 255 His	Val Pro Val 240 Val Glu
100 103 104 106 107 109 110 112	His Tyr 225 Ala	Tyr 210 Leu His	Leu 195 Leu Gly Gly Arg	Ala 180 Ser Ile Phe Asn Leu 260	Glu Gly Ser Val Thr 245 Cys	Arg Ala Tyr 230 Ala Gly	Val Gly 215 Thr Arg	Asp 200 Met Ser Leu Ile	His 185 Met Asp Phe Ala Ala 265	Gly ala Pro Gln Lys 250 Ala	Gly Glu 235 Glu Asp	Val Thr 220 Arg Gly	Glu 205 Asp Ala Gly Lys	Arg 190 Lys Asn Thr Asp	Thr Thr Asn Phe Pro 255 His	Val Pro Val 240 Val Glu
100 103 104 106 107 109 110 112	His Tyr 225 Ala	Tyr 210 Leu His	Leu 195 Leu Gly Gly Arg	Ala 180 Ser Ile Phe Asn Leu	Glu Gly Ser Val Thr 245 Cys	Arg Ala Tyr 230 Ala Gly	Val Gly 215 Thr Arg	Asp 200 Met Ser Leu Ile Glu	His 185 Met Asp Phe Ala Ala 265	Gly ala Pro Gln Lys 250 Ala	Gly Glu 235 Glu Asp	Val Thr 220 Arg Gly	Glu 205 Asp Ala Gly Lys Val	Arg 190 Lys Asn Thr Asp	Thr Thr Asn Phe Pro 255 His	Val Pro Val 240 Val Glu
100 101 103 104 106 107 109 110 112 113 115	His Tyr 225 Ala Leu Asn	Tyr 210 Leu His Ala	Leu 195 Leu Gly Gly Arg Tyr 275	Ala 180 Ser Ile Phe Asn Leu 260 Ser	Glu Gly Ser Val Thr 245 Cys	Arg Ala Tyr 230 Ala Gly Ile	Val Gly 215 Thr Arg Thr	Asp 200 Met Ser Leu Ile Glu 280	His 185 Met Asp Phe Ala Ala 265 Lys	Gly ala Pro Gln Lys 250 Ala	Gly Glu 235 Glu Asp Leu	Thr 220 Arg Gly Glu	Glu 205 Asp Ala Gly Lys Val	Arg 190 Lys Asn Thr Asp Arg 270 Asp	Thr Thr Asn Phe Pro 255 His	Val Pro Val 240 Val Glu
100 103 104 106 107 109 110 112 113 115 116	His Tyr 225 Ala Leu Asn	Tyr 210 Leu His Ala Ala	Leu 195 Leu Gly Gly Arg Tyr 275	Ala 180 Ser Ile Phe Asn Leu 260	Glu Gly Ser Val Thr 245 Cys	Arg Ala Tyr 230 Ala Gly Ile	Val Gly 215 Thr Arg Thr Val	Asp 200 Met Ser Leu Ile Glu 280	His 185 Met Asp Phe Ala Ala 265 Lys	Gly ala Pro Gln Lys 250 Ala	Gly Glu 235 Glu Asp Leu	Val Thr 220 Arg Gly Glu Glu Lys	Glu 205 Asp Ala Gly Lys Val	Arg 190 Lys Asn Thr Asp Arg 270 Asp	Thr Thr Asn Phe Pro 255 His	Val Pro Val 240 Val Glu
100 103 104 106 107 109 110 112 113 115 116 118	His Tyr 225 Ala Leu Asn	Tyr 210 Leu His Ala Ala Ala 290	Gly Gly Arg Tyr 275 Met	Ala 180 Ser Ile Phe Asn Leu 260 Ser	Glu Gly Ser Val Thr 245 Cys Arg	Arg Ala Tyr 230 Ala Gly Ile	Val Gly 215 Thr Arg Thr Val Gly 295	Asp 200 Met Ser Leu Ile Glu 280 Asn	His 185 Met Asp Phe Ala 265 Lys Met	Gly ala Pro Gln Lys 250 Ala Leu Met	Gly Glu 235 Glu Asp Leu Glu	Val Thr 220 Arg Gly Glu Glu Lys	Glu 205 Asp Ala Gly Lys Val 285 Lys	Arg 190 Lys Asn Thr Asp Arg 270 Asp	Thr Asn Phe Pro 255 His Pro Thr	Val Pro Val 240 Val Glu Thr
100 103 104 106 107 109 110 112 113 115 116 118 119	His Tyr 225 Ala Leu Asn Gly	Tyr 210 Leu His Ala Ala Ala 290	Gly Gly Arg Tyr 275 Met	Ala 180 Ser Ile Phe Asn Leu 260 Ser	Glu Gly Ser Val Thr 245 Cys Arg	Arg Ala Tyr 230 Ala Gly Ile Ile	Val Gly 215 Thr Arg Thr Val Gly 295	Asp 200 Met Ser Leu Ile Glu 280 Asn	His 185 Met Asp Phe Ala 265 Lys Met	Gly ala Pro Gln Lys 250 Ala Leu Met	Gly Glu 235 Glu Asp Leu Glu	Val Thr 220 Arg Gly Glu Glu Lys	Glu 205 Asp Ala Gly Lys Val 285 Lys	Arg 190 Lys Asn Thr Asp Arg 270 Asp	Thr Asn Phe Pro 255 His Pro Thr	Val Pro Val 240 Val Glu Thr
100 103 104 106 107 109 110 112 113 115 116 118 119 121	His Tyr 225 Ala Leu Asn Gly Pro 305	Tyr 210 Leu His Ala Ala Ala 290 Ala	Gly Gly Arg Tyr 275 Met	Ala 180 Ser Ile Phe Asn Leu 260 Ser Val	Glu Gly Ser Val Thr 245 Cys Arg Ala Met	Arg Ala Tyr 230 Ala Gly Ile Ile Tyr 310	Gly 215 Thr Arg Thr Val Gly 295 Asp	Asp 200 Met Ser Leu Ile Glu 280 Asn	His 185 Met Asp Phe Ala 265 Lys Met Asp	ala Pro Gln Lys 250 Ala Leu Met	Glu 235 Glu Asp Leu Glu Pro	Val Thr 220 Arg Gly Glu Glu Lys 300 Arg	Glu 205 Asp Ala Gly Lys Val 285 Lys	Arg 190 Lys Asn Thr Asp Arg 270 Asp Ile	Thr Thr Asn Phe Pro 255 His Pro Thr	Val Pro Val 240 Val Glu Thr Met
100 101 103 104 106 107 109 110 112 113 115 116 118 119 121 122	His Tyr 225 Ala Leu Asn Gly Pro 305	Tyr 210 Leu His Ala Ala Ala 290 Ala	Gly Gly Arg Tyr 275 Met	Ala 180 Ser Ile Phe Asn Leu 260 Ser Val	Glu Gly Ser Val Thr 245 Cys Arg Ala Met	Arg Ala Tyr 230 Ala Gly Ile Ile Tyr 310	Gly 215 Thr Arg Thr Val Gly 295 Asp	Asp 200 Met Ser Leu Ile Glu 280 Asn	His 185 Met Asp Phe Ala 265 Lys Met Asp	ala Pro Gln Lys 250 Ala Leu Met	Glu 235 Glu Asp Leu Glu Pro	Val Thr 220 Arg Gly Glu Glu Lys 300 Arg	Glu 205 Asp Ala Gly Lys Val 285 Lys	Arg 190 Lys Asn Thr Asp Arg 270 Asp Ile	Thr Thr Asn Phe Pro 255 His Pro Thr	Val Pro Val 240 Val Glu Thr Met
100 103 104 106 107 109 110 112 113 115 116 118 119 121	His Tyr 225 Ala Leu Asn Gly Pro 305	Tyr 210 Leu His Ala Ala Ala 290 Ala	Gly Gly Arg Tyr 275 Met	Ala 180 Ser Ile Phe Asn Leu 260 Ser	Glu Gly Ser Val Thr 245 Cys Arg Ala Met Ala	Arg Ala Tyr 230 Ala Gly Ile Ile Tyr 310	Gly 215 Thr Arg Thr Val Gly 295 Asp	Asp 200 Met Ser Leu Ile Glu 280 Asn	His 185 Met Asp Phe Ala 265 Lys Met Asp	Gly ala Pro Gln Lys 250 Ala Leu Met Asp Val	Glu 235 Glu Asp Leu Glu Pro	Val Thr 220 Arg Gly Glu Glu Lys 300 Arg	Glu 205 Asp Ala Gly Lys Val 285 Lys	Arg 190 Lys Asn Thr Asp Arg 270 Asp Ile	Thr Asn Phe Pro 255 His Pro Thr Glu Asp	Val Pro Val 240 Val Glu Thr Met
100 101 103 104 106 107 109 110 112 113 115 116 118 119 121 122 124 125	His Tyr 225 Ala Leu Asn Gly Pro 305 Tyr	Tyr 210 Leu His Ala Ala 290 Ala Ser	Gly Gly Arg Tyr 275 Met His	Ala 180 Ser Ile Phe Asn Leu 260 Ser Val Leu Val	Glu Gly Ser Val Thr 245 Cys Arg Ala Met Ala 325	Arg Ala Tyr 230 Ala Gly Ile Ile Tyr 310 Gln	Val Gly 215 Thr Arg Thr Val Gly 295 Asp	Asp 200 Met Ser Leu Ile Glu 280 Asn Gly Ile	His 185 Met Asp Phe Ala Ala 265 Lys Met Asp Gly	Gly ala Pro Gln Lys 250 Ala Leu Met Asp Val	Gly Glu 235 Glu Asp Leu Glu Pro 315 Tyr	Val Thr 220 Arg Gly Glu Glu Lys 300 Arg	Glu 205 Asp Ala Gly Lys Val 285 Lys Leu Ala	Arg 190 Lys Asn Thr Asp Arg 270 Asp Ile Phe	Thr Thr Asn Phe Pro 255 His Pro Thr Glu Asp	Val Pro Val 240 Val Glu Thr Met His 320 Tyr
100 101 103 104 106 107 109 110 112 113 115 116 118 119 121 122 124 125 127	His Tyr 225 Ala Leu Asn Gly Pro 305 Tyr	Tyr 210 Leu His Ala Ala 290 Ala Ser	Gly Gly Arg Tyr 275 Met His	Ala 180 Ser Ile Phe Asn Leu 260 Ser Val Leu Val Leu	Glu Gly Ser Val Thr 245 Cys Arg Ala Met Ala 325	Arg Ala Tyr 230 Ala Gly Ile Ile Tyr 310 Gln	Val Gly 215 Thr Arg Thr Val Gly 295 Asp	Asp 200 Met Ser Leu Ile Glu 280 Asn Gly Ile	His 185 Met Asp Phe Ala 265 Lys Met Asp Gly	Gly ala Pro Gln Lys 250 Ala Leu Met Asp Val	Gly Glu 235 Glu Asp Leu Glu Pro 315 Tyr	Val Thr 220 Arg Gly Glu Glu Lys 300 Arg	Glu 205 Asp Ala Gly Lys Val 285 Lys Leu Ala	Arg 190 Lys Asn Thr Asp Arg 270 Asp Ile Phe Asn Glu	Thr Thr Asn Phe Pro 255 His Pro Thr Glu Asp	Val Pro Val 240 Val Glu Thr Met His 320 Tyr
100 101 103 104 106 107 109 110 112 113 115 116 118 119 121 122 124 125 127	His Tyr 225 Ala Leu Asn Gly Pro 305 Tyr	Tyr 210 Leu His Ala Ala 290 Ala Ser Asp	Gly Gly Arg Tyr 275 Met His Ala	Ala 180 Ser Ile Phe Asn Leu 260 Ser Val Leu Val Leu 340	Glu Gly Ser Val Thr 245 Cys Arg Ala Met Ala 325 Glu	Arg Ala Tyr 230 Ala Gly Ile Ile Tyr 310 Gln Phe	Val Gly 215 Thr Arg Thr Val Gly 295 Asp Arg	Asp 200 Met Ser Leu Ile Glu 280 Asn Gly Ile Val	His 185 Met Asp Phe Ala Ala 265 Lys Met Asp Gly Glu 345	Gly ala Pro Gln Lys 250 Ala Leu Met Asp Val 330 Arg	Gly Glu 235 Glu Asp Leu Glu Pro 315 Tyr	Val Thr 220 Arg Gly Glu Glu Lys 300 Arg Thr	Glu 205 Asp Ala Gly Lys Val 285 Lys Leu Ala	Arg 190 Lys Asn Thr Asp Arg 270 Asp Ile Phe Asn	Thr Asn Phe Pro 255 His Pro Thr Glu Asp 335 Lys	Val Pro Val 240 Val Glu Thr Met His 320 Tyr
100 103 104 106 107 109 110 112 113 115 116 118 119 121 122 124 125 127 128 130	His Tyr 225 Ala Leu Asn Gly Pro 305 Tyr	Tyr 210 Leu His Ala Ala 290 Ala Ser Asp	Leu 195 Leu Gly Gly Arg Tyr 275 Met His Ala Ile	Ala 180 Ser Ile Phe Asn Leu 260 Ser Val Leu Val Leu 340	Glu Gly Ser Val Thr 245 Cys Arg Ala Met Ala 325 Glu	Arg Ala Tyr 230 Ala Gly Ile Ile Tyr 310 Gln Phe	Val Gly 215 Thr Arg Thr Val Gly 295 Asp Arg	Asp 200 Met Ser Leu Ile Glu 280 Asn Gly Ile Val	His 185 Met Asp Phe Ala Ala 265 Lys Met Asp Gly Glu 345	Gly ala Pro Gln Lys 250 Ala Leu Met Asp Val 330 Arg	Gly Glu 235 Glu Asp Leu Glu Pro 315 Tyr	Val Thr 220 Arg Gly Glu Glu Lys 300 Arg Thr	Glu 205 Asp Ala Gly Lys Val 285 Lys Leu Ala	Arg 190 Lys Asn Thr Asp Arg 270 Asp Ile Phe Asn	Thr Asn Phe Pro 255 His Pro Thr Glu Asp 335 Lys	Val Pro Val 240 Val Glu Thr Met His 320 Tyr
100 101 103 104 106 107 109 110 112 113 115 116 118 119 121 122 124 125 127	His Tyr 225 Ala Leu Asn Gly Pro 305 Tyr	Tyr 210 Leu His Ala Ala 290 Ala Ser Asp	Gly Gly Arg Tyr 275 Met His Ala	Ala 180 Ser Ile Phe Asn Leu 260 Ser Val Leu Val Leu	Glu Gly Ser Val Thr 245 Cys Arg Ala Met Ala 325 Glu	Arg Ala Tyr 230 Ala Gly Ile Ile Tyr 310 Gln Phe	Val Gly 215 Thr Arg Thr Val Gly 295 Asp Arg	Asp 200 Met Ser Leu Ile Glu 280 Asn Gly Ile Val	His 185 Met Asp Phe Ala Ala 265 Lys Met Asp Gly Glu 345	Gly ala Pro Gln Lys 250 Ala Leu Met Asp Val 330 Arg	Gly Glu 235 Glu Asp Leu Glu Pro 315 Tyr	Val Thr 220 Arg Gly Glu Glu Lys 300 Arg Thr	Glu 205 Asp Ala Gly Lys Val 285 Lys Leu Ala	Arg 190 Lys Asn Thr Asp Arg 270 Asp Ile Phe Asn	Thr Asn Phe Pro 255 His Pro Thr Glu Asp 335 Lys	Val Pro Val 240 Val Glu Thr Met His 320 Tyr

RAW SEQUENCE LISTING DATE: 10/15/2001 PATENT APPLICATION: US/09/934,900 TIME: 21:05:11

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\10152001\1934900.raw

```
133 Leu Ala Pro Arg Ile Arg Arg Leu Gln Glu Arg Ala Asp Glu Arg Ala
      134
               370
                                   375
      136 Arg Lys Met Lys Lys His His Gly Val Lys Phe Ser Trp Ile Phe Asn
                                                   395
      139 Lys Glu Leu Leu Leu
      140
      143 <210> SEQ ID NO: 3
      144 <211> LENGTH: 563
      145 <212> TYPE: DNA
      146 <213> ORGANISM: Zea mays
      148 <220> FEATURE:
      149 <221> NAME/KEY: unsure
      150 <222> LOCATION: (308)
      152 <220> FEATURE:
      153 <221> NAME/KEY: unsure
      154 <222> LOCATION: (458)
      156 <220> FEATURE:
      157 <221> NAME/KEY: unsure/
      158 <222> LOCATION: (483)
      160 <220> FEATURE:
      161 <221> NAME/KEY: unsure
      162 <222> LOCATION: (494)
      164 <220> FEATURE:
      165 <221> NAME/KEY: unsure
      166 <222> LOCATION: (519)
      168 <220> FEATURE:
      169 <221> NAME/KEY: unsure
     170 <222> LOCATION: (521)
     172 <220> FEATURE:
     173 <221> NAME/KEY: unsure
     174 <222> LOCATION: (545)
     176 <220> FEATURE:
     177 <221> NAME/KEY: unsure
     178 <222> LOCATION: (550)
     180 <220> FEATURE:
     181 <221> NAME/KEY: unsure
     182 <222> LOCATION: (557)
     184 <400> SEQUENCE: 3
     185 agegaceaaa eeegggeace tegtetaget egeetteeat ttegteeett eetatteata 60
     186 ctaccttcta cgagtttgag cagccatggc ggcaacaaca ccactgcttg ctgtggctgg 120
     187 acatggagta tectacaaac cagcaaatge taaagacage tactactget teaaatttge 180
     188 atcatcggca agaacaagag tcaccctccc acagatcatc cactggaggt gcaggagcag 240
     189 tcatagcage acggggacca cgaccatgge cgtccctgtc ctcaagcggc gggagaagca 300
  -> 190 ggacgaanag caggaatgga tggggtacct ggccccggag aagctggagg tgctagcaca 360
     191 cctggagccg tgggcggagg cgcacgtgct gccgctgctg aagcccgcgg aggagggtgg 420
W--> 192 aaccgtcgga catctccgga ccggcgcgct ggcgacangg ctcacaccgt gccgcaactc 480
W--> 193 gcnccggggg caantgcega cccactgggt gctggtggna natatacgag gaggctgcca 540
W--> 194 gtcanagcgn ccaacgntca ggg
     197 <210> SEQ ID NO: 4
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/934,900

DATE: 10/15/2001
TIME: 21:05:11

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\10152001\1934900.raw

```
198 <211> LENGTH: 110
     199 <212> TYPE: PRT
     200 <213> ORGANISM: Zea mays
     202 <220> FEATURE:
     203 <221> NAME/KEY: UNSURE
     204 <222> LOCATION: (75)
     206 <400> SEQUENCE: 4
     207 Met ala Ala Thr Thr Pro Leu Leu Ala Val Ala Gly His Gly Val Ser
     208
     210 Tyr Lys Pro Ala Asn Ala Lys Asp Ser Tyr Tyr Cys Phe Lys Phe Ala
     211
                      20
                                          25
     213 Ser Ser Ala Arg Thr Arg Val Thr Leu Pro Gln Ile Ile His Trp Arg
     214
     216 Cys Arg Ser Ser His Ser Ser Thr Gly Thr Thr Met ala Val Pro
     217
              50
W--> 219 Val Leu Lys Arg Arg Glu Lys Gln Asp Glu Xaa Gln Glu Trp Met Gly
     220 65
                                                  75
    222 Tyr Leu Ala Pro Glu Lys Leu Glu Val Leu Ala His Leu Glu Pro Trp
                                              90
    225 Ala Glu Ala His Val Leu Pro Leu Leu Lys Pro Ala Glu Glu
    226
                    100
                                         105
    229 <210> SEQ ID NO: 5
    230 <211> LENGTH: 880
    231 <212> TYPE: DNA
    232 <213> ORGANISM: Zea mays
    234 <400> SEQUENCE: 5
    235 cgtcggcacg agcggcacga gctcgtgccg cgtccactcc acagtcaccc accgccgcct 60
    236 cctccagcgt ccggcccgta cgccgcgcag ccaacccagc gggcacgatg caggcccacg 120
    237 gcatcgccat ccgcgcccgc gggccggtgg cggcgacgca ggcccccgcg cgccgacggc 180
    238 aatgeegegt gtetgeggeg geggteggeg egeeegeege gegegeeege gtgaegeact 240
    239 cgatgccgcc ggagaaggcg gaggtgttcc gctcgctgga gggctgggcg gcgcggtcgc 300
    240 tgctgccgct gctcaagccc gtggaggagt gctggcagcc ggcggacttc ctcccggact 360
    241 cetegteega gatgtteggg cacgaggtee gegagetgeg egeeegegee geggggetee 420
    242 ccgacgagta cttcgtcgtg ctcgtgggcg acatggtcac ggaagaggcg ctgcccacgt 480
    243 accagaccat gatcaacacg ctcgacggcg tccgcgacga gaccggcgcc agcaactgcc 540
    244 cctgggcggt ctggacgcg gcctggaccg ccgaggagaa ccgccacggc gacatcctcg 600
    245 gcaagtacat gtacctatcc ggccgcgtcg acatgcgcat ggtcgagaag accgtccagt 660
   246 acctcatcgg ctccggcatg gatcccggaa cggagaacaa cccgtacctg ggcttcgtgt 720
   247 acacgagett ccaggagege gegaeggeeg tetegeaegg caacacegeg eggeteecca 780
   248 gggcgcacgg ggacgacttc ttggcgcgcg cctgcgggac caaccgccgc caacaagaaa 840
   249 cgaaacaaaa cgggttaagg ggcatcctcc aagaagttgg
   252 <210> SEQ ID NO: 6
   253 <211> LENGTH: 257
   254 <212> TYPE: PRT
   255 <213> ORGANISM: Zea mays
   257 <400> SEQUENCE: 6
   258 Met Gln Ala His Gly Ile Ala Ile Arg Ala Arg Gly Pro Val Ala Ala
   261 Thr Gln Ala Pro Ala Arg Arg Gln Cys Arg Val Ser Ala Ala
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/934,900

DATE: 10/15/2001
TIME: 21:05:11

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\10152001\1934900.raw

```
262
                                        25
  264 Val Gly Ala Pro Ala Ala Arg Ala Arg Val Thr His Ser Met Pro Pro
               35
  267 Glu Lys Ala Glu Val Phe Arg Ser Leu Glu Gly Trp Ala Ala Arg Ser
                               55
  270 Leu Leu Pro Leu Leu Lys Pro Val Glu Glu Cys Trp Gln Pro Ala Asp
                           70
  273 Phe Leu Pro Asp Ser Ser Glu Met Phe Gly His Glu Val Arg Glu
 276 Leu Arg Ala Arg Ala Ala Gly Leu Pro Asp Glu Tyr Phe Val Val Leu
                                      105
 279 Val Gly Asp Met Val Thr Glu Glu Ala Leu Pro Thr Tyr Gln Thr Met
             115
                                  120
 282 Ile Asn Thr Leu Asp Gly Val Arg Asp Glu Thr Gly Ala Ser Asn Cys
                              135
 285 Pro Trp Ala Val Trp Thr Arg Ala Trp Thr Ala Glu Glu Asn Arg His
                          150
                                              155
 288 Gly Asp Ile Leu Gly Lys Tyr Met Tyr Leu Ser Gly Arg Val Asp Met
                                          170
 291 Arg Met Val Glu Lys Thr Val Gln Tyr Leu Ile Gly Ser Gly Met Asp
                 180
                                      185
 294 Pro Gly Thr Glu Asn Asn Pro Tyr Leu Gly Phe Val Tyr Thr Ser Phe
             195
                                 200
 297 Gln Glu Arg Ala Thr Ala Val Ser His Gly Asn Thr Ala Arg Leu Pro
 300 Arg Ala His Gly Asp Asp Phe Leu Ala Arg Ala Cys Gly Thr Asn Arg
                         230
                                              235
 303 Arg Gln Gln Glu Thr Lys Gln Asn Gly Leu Arg Gly Ile Leu Gln Glu
 304
                                         250
306 Val
307 257
310 <210> SEQ ID NO: 7
311 <211> LENGTH: 463
312 <212> TYPE: DNA
313 <213> ORGANISM: Oryza sativa
315 <220> FEATURE:
316 <221> NAME/KEY: unsure
317 <222> LOCATION: (334)
319 <220> FEATURE:
320 <221> NAME/KEY: unsure
321 <222> LOCATION: (350)
323 <220> FEATURE:
324 <221> NAME/KEY: unsure
325 <222> LOCATION: (358)
327 <220> FEATURE:
328 <221> NAME/KEY: unsure
329 <222> LOCATION: (431)
331 <220> FEATURE:
332 <221> NAME/KEY: unsure
```

Use of n and/or Xax has been detected in the Sequence Listing. Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using mor Xax.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/934,900

DATE: 10/15/2001 TIME: 21:05:12

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\10152001\1934900.raw

L:14 M:270 C: Current Application Number differs, Replaced Application Number L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:190 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:3 L:190 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:192 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:3 L:192 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:193 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:3 L:193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:194 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:3 L:194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:219 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:4 L:219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 L:357 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:7 L:357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 L:359 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:7 L:359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 L:1485 M:341 W: (46) "n" or "Xaa" used, for $\stackrel{-}{\text{SEQ}}$ ID#:26

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/934,900

DATE: 09/07/2001 TIME: 16:33:18

Input Set : A:\BB1476 US NA Seq Listing.txt
Output Set: N:\CRF3\09072001\1934900.raw

	ouches pes: N. (0223 (030:2002 (230:300:224)	
3 <110>	APPLICANT: Booth, Russ Cahoon, Rebecca E	Does Not Comply Corrected Diskette Needed
5	Hitz, William D	
6	Kinney, Anthony	
7	Yadav, Naren	
9 <120>	TITLE OF INVENTION: Nucleotide Sequences of a New	Class of Diverged Delta-9
Stearoyl-		
10	ACP Desaturase	
12 <130>	FILE REFERENCE: BB1476 US NA	
C> 14 <140>	CURRENT APPLICATION NUMBER: US/09/934,900	
C> 15 <141>	CURRENT FILING DATE: 2001-08-22	
17 <150>	PRIOR APPLICATION NUMBER: 60/226996	
18 <151>	PRIOR FILING DATE: 2000-08-22	
20 <160>	NUMBER OF SEQ ID NOS: 26	
22 <170>	SOFTWARE: Microsoft Office 97	

ERRORED SEQUENCES

1401 <210> SEQ ID NO: 26

1402 <211> LENGTH: 6611	
1403 <212> TYPE: DNA	
1404 <213> ORGANISM: Plasmid pBS68	
1406 <220> FEATURE:	
1407 <221> NAME/KEY: Unsure	
1408 <222> LOCATION: (4436)(4436)	
1409 $\langle 222\rangle$ OTHER INFORMATION: $n = A$, C, G, or T	
1411 <400> SEQUENCE: 26	
1412 cgcgcctatg cgggaccatc gcagcggacg agaagcggca cgagaacgcg tactcaagaa	60
1413 tegtggagaa gettetggaa gtggaceeca eeggggeaat ggtggeeata gggaacatga	120
1414 tggagaagaa gatcacgatg ccggcgcacc ttatgtacga tggggatgac cccaggctat	180
1415 tegageacta etcegetgtg gegeagegea taggegtgta cacegecaac gactaegeag	240
1416 acatcttgga tttctcgttg acggtgaaga ttggagaagc ttgaaggatt gatgcctgag	300
1417 gggaagcggg ccccaggatt tccgtgtgtg ggttgccccc gaggattagg aggttccaag	360
1418 aacgcgctga tgagcgagcg cgtaagatga agaagcatca tgccgttaag ttcagttgga	420
1419 ttttcaataa agaattgctt ttgtgagcgg ccgccgactc gacgatgagc gagatgacca	480
1420 gctccggccg ccgactcgac gatgagcgag atgaccagct ccggccgcga cacaagtgtg	540
1421 agagtactaa ataaatgott tggttgtacg aaatcattac actaaataaa ataatcaaag	600
	660
1422 cttatatatg ccttccgcta aggccgaatg caaagaaatt ggttctttct cgttatcttt	720
1423 tgccactttt actagtacgt attaattact acttaatcat ctttgtttac ggctcattat	780
1424 atccgtcgac ggcgcgccg atcatccgga tatagttcct cctttcagca aaaaacccct	840
1425 caagacccgt ttagaggccc caaggggtta tgctagttat tgctcagcgg tggcagcagc	
1426 caactcaget teettteggg etttgttage ageeggateg atceaagetg tacetcacta	900
1427 ttcctttgcc ctcggacgag tgctggggcg tcggtttcca ctatcggcga gtacttctac	960
1428 acagccatcg gtccagacgg ccgcgcttct gcgggcgatt tgtgtacgcc cgacagtccc	1020
1429 ggctccggat cggacgattg cgtcgcatcg accctgcgcc caagctgcat catcgaaatt	1080
1430 gccgtcaacc aagctctgat agagttggtc aagaccaatg cggagcatat acgcccggag	1140
1431 cegeggegat cetgeaaget eeggatgeet eegetegaag tagegegtet getgeteeat	1200

RAW SEQUENCE LISTING

DATE: 09/07/2001 TIME: 16:33:18 PATENT APPLICATION: US/09/934,900

Input Set : A:\BB1476 US NA Seq Listing.txt
Output Set: N:\CRF3\09072001\1934900.raw

1432	acaagccaac	cacggcctcc	agaagaagat	gttggcgacc	tcgtattggg	aatccccgaa	1260
1433	catcgcctcg	ctccagtcaa	tgaccgctgt	tatgcggcca	ttgtccgtca	ggacattgtt	1320
1434	ggagccgaaa	tccgcgtgca	cgaggtgccg	gacttcgggg	cagtcctcgg	cccaaagcat	1380
1435	cagctcatcg	agagcctgcg	cgacggacgc	actgacggtg	tcgtccatca	cagtttgcca	1440
1436	gtgatacaca	tggggatcag	caatcgcgca	tatgaaatca	cgccatgtag	tgtattgacc	1500
1437	gattccttgc	ggtccgaatg	ggccgaaccc	gctcgtctgg	ctaagatcgg	ccgcagcgat	1560
1438	cgcatccata	gcctccgcga	ccggctgcag	aacagcgggc	agttcggttt	caggcaggtc	1620
1439	ttgcaacgtg	acaccctgtg	cacggcggga	gatgcaatag	gtcaggctct	cgctgaattc	1680
1440	cccaatgtca	agcacttccg	gaatcgggag	cgcggccgat	gcaaagtgcc	gataaacata	1740
1441	acgatctttg	tagaaaccat	cggcgcagct	atttacccgc	aggacatatc	cacgccctcc	1800
1442	tacatcgaag	ctgaaagcac	gagattcttc	gccctccgag	agctgcatca	ggtcggagac	1860
1443	gctgtcgaac	ttttcgatca	gaaacttctc	gacagacgtc	gcggtgagtt	caggcttttc	1920
			aaagttaaac				1980
			ttaatttcgc				2040
			agaggcggtt				2100
			gtcgttcggc				2160
			gaatcagggg				2220
			cgtaaaaagg				2280
			aaaaatcgac				2340
	•		tttccccctg	-			2400
			ctgtccgcct				2460
			ctcagttcgg				2520
			cccgaccgct				2580
			ttatcgccac				2640
			gctacagagt				2700
			atctgcgctc				2760
			aaacaaacca				2820
			aaaaaaggat				2880
			gaaaactcac				2940
			aggccctttc				3000
			ccggagacgg				3060
			gcgtcagcgg				3120
			gtactgagag				3180
			accttatgta				3240
			atcctcgaag				3300
			tttaaaaatt				3360
			acaaaattta				3420
			aaagtatatt				3480
			gtgaaaatga				3540
			tatttaatcc				3600
			ttatataaaa				3660
			gttgtaagaa	-		-	3720
			gtcagattga				3780
			tcatctcttt				3840
			atggttaaat				3900
			actattttta				3960
		_	tattagttaa	_		•	4020
			aacatctttc				4080
			atttcccttc				4140
		-					

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/934,900

DATE: 09/07/2001
TIME: 16:33:18

Input Set : A:\BB1476 US NA Seq Listing.txt
Output Set: N:\CRF3\09072001\1934900.raw

	1481	ataaactaaa	atactaaaaa	caggattaca	caaatgataa	ataataacac	aaatatttat	4200
	1482	aaatctagct	gcaatatatt	taaactagct	atatcgatat	tgtaaaataa	aactagctgc	4260
	1483	attgatactg	ataaaaaaat	atcatgtgct	ttctggactg	atgatgcagt	atacttttga	4320
	1484	cattgccttt	attttattt	tcagaaaagc	tttcttagtt	ctgggttctt	cattatttgt	4380
W>	1485	ttcccatctc	cattgtgaat	tgaatcattt	gcttcgtgtc	acaaatacaa	tttagntagg	4440
	1486	tacatgcatt	ggtcagattc	acggtttatt	atgtcatgac	ttaagttcat	ggtagtacat	4500
	1487	tacctgccac	gcatgcatta	tattggttag	atttgatagg	caaatttggt	tgtcaacaat	4560
	1488	ataaatataa	ataatgtttt	tatattacga	aataacagtg	atcaaaacaa	acagttttat	4620
	1489	ctttattaac	aagattttgt	ttttgtttga	tgacgttttt	taatgtttac	gctttccccc	4680
	1490	ttcttttgaa	tttagaacac	tttatcatca	taaaatcaaa	tactaaaaaa	attacatatt	4740
	1491	tcataaataa	taacacaaat	atttttaaaa	aatctgaaat	aataatgaac	aatattacat	4800
	1492	attatcacga	aaattcatta	ataaaaatat	tatataaata	aaatgtaata	gtagttatat	4860
	1493	gtaggaaaaa	agtactgcac	gcataatata	tacaaaaaga	ttaaaatgaa	ctattataaa	4920
	1494	taataacact	aaattaatgg	tgaatcatat	caaaataatg	aaaaagtaaa	taaaatttgt	4980
	1495	aattaacttc	tatatgtatt	acacacacaa	ataataaata	atagtaaaaa	aaattatgat	5040
	1496	aaatatttac	catctcataa	gatatttaaa	ataatgataa	aaatatagat	tatttttat	5100
	1497	gcaactagct	agccaaaaag	agaacacggg	tatatataaa	aagagtacct	ttaaattcta	5160
	1498	ctgtacttcc	tttattcctg	acgtttttat	atcaagtgga	catacgtgaa	gattttaatt	5220
	1499	atcagtctaa	atatttcatt	agcacttaat	acttttctgt	tttattccta	tcctataagt	5280
	1500	agtcccgatt	ctcccaacat	tgcttattca	cacaactaac	taagaaagtc	ttccatagcc	5340
	1501	ccccaagcgg	ccggagctgg	tcatctcgct	catcgtcgag	tcggcggccg	gagctggtca	5400
	1502	tctcgctcat	cgtcgagtcg	gcggccgctg	agtgattgct	cacgagtgtg	gtcaccatgc	5460
	1503	cttcagcaag	taccaatggg	ttgatgatgt	tgtgggtttg	accettcact	caacactttt	5520
	1504	agtcccttat	ttctcatgga	aaataagcca	tcgccgccat	cactccaaca	caggttccct	5580
	1505	tgaccgtgat	gaagtgtttg	tcccaaaacc	aaaatccaaa	gttgcatggt	tttccaagta	5640
	1506	cttaaacaac	cctctaggaa	gggctgtttc	tcttctcgtc	acactcacaa	tagggtggcc	5700
	1507	tatgtattta	gccttcaatg	tctctggtag	accctatgat	agttttgcaa	gccactacca	5760
	1508	cccttatgct	cccatatatt	ctaaccgtga	gaggettetg	atctatgtct	ctgatgttgc	5820
	1509	tttgttttct	gtgacttact	ctctctaccg	tgttgcaacc	ctgaaagggt	tggtttggct	5880
	1510	gctatgtgtt	tatggggtgc	ctttgctcat	tgtgaacggt	tttcttgtga	ctatcacata	5940
	1511	tttgcagcac	acacactttg	ccttgcctca	ttacgattca	tcagaatggg	actggctgaa	6000
	1512	gggagctttg	gcaactatgg	acagagatta	agcggccgca	tgcctccaga	aaagaaagaa	6060
	1513	attttcaagt	ccttggaggg	atgggcctcg	gagtgggtcc	taccgctgct	gaagcccgtg	6120
	1514	gagcaatgct	ggcagccaca	aaacttcctc	cctgacccct	cccttccgca	tgaagagttc	6180
	1515	agccatcagg	tgaaggagct	tcgcgaacgc	actaaagagt	tacctgatga	gtactttgtg	6240
	1516	gtgctggtgg	gtgatatggt	caccgaggac	gcgcttccca	cttaccagac	catgatcaac	6300
	1517	aaccttgatg	gagtgaaaga	tgacagcggc	acgagcccga	gcccgtgggc	cgtgtggacc	6360
	1518	cgggcctgga	ccgccgagga	aaacagacac	ggggatctgc	tcagaactta	tttgtatctc	6420
	1519	tctgggaggg	ttgacatggc	taaggtcgaa	aagaccgtac	attacctcat	ttcagctggc	6480
			ggacagacaa					6540
			ttgtggcgca	cgggaacacg	gctcggctcg	cgaaggaggg	cggggatcca	6600
		gtgctggcgc	g					6611
E>	1523	(1)						
	,	n NXv						
		1/ 1/4/1/						

VERIFICATION SUMMARY

DATE: 09/07/2001

PATENT APPLICATION: US/09/934,900

TIME: 16:33:19

Input Set : A:\BB1476 US NA Seq Listing.txt Output Set: N:\CRF3\09072001\1934900.raw

L:14 M:270 C: Current Application Number differs, Replaced Application Number L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:190 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:3 L:190 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:192 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:3 L:192 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:193 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:3 L:193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:194 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:3 L:194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:219 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:4 L:219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 L:357 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:7 $L:357\ M:341\ W:$ (46) "n" or "Xaa" used, for SEQ ID#:7 L:359 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:7 L:359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 L:1485 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26

L:1523 M:254 E: No. of Bases conflict, LENGTH:Input:1 Counted:6611 SEQ:26